

Name _____ Date _____ Hour _____

Module 5: Correctives

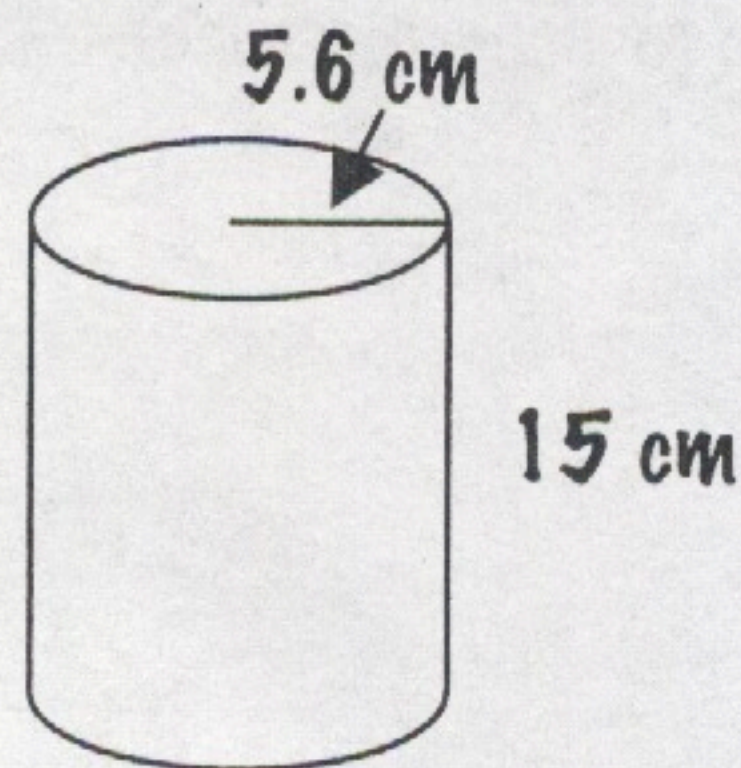
Section 5:1:1 Surface Area of Cylinders

Find the surface area of each cylinder.

Round all answers to the nearest hundredths place.

1) $d = 16$ in.
 $h = 22$ in.

2)



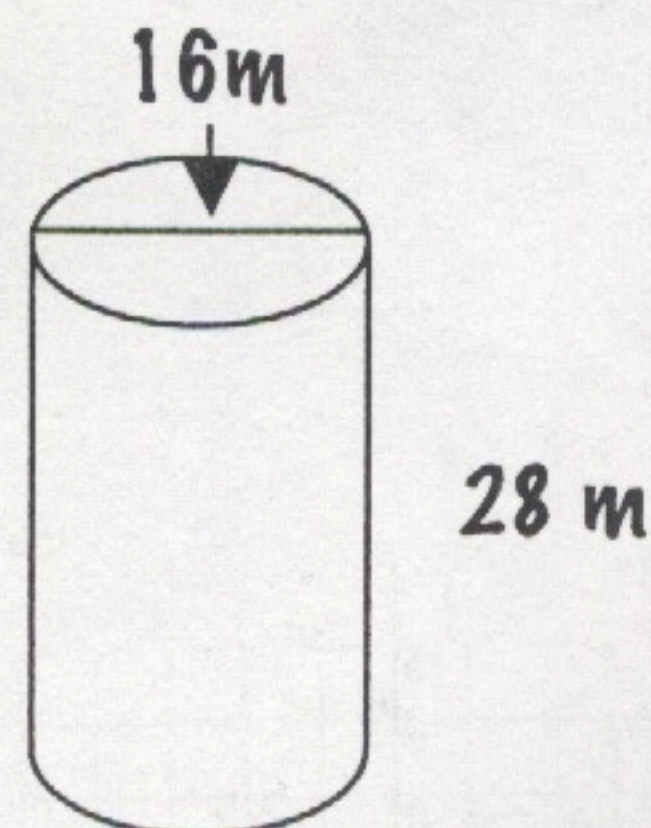
Section 5:1:2 Volume of Cylinders

Find the volume of each cylinder.

Round all answers to the nearest hundredths place.

3) $r = 9$ in.
 $h = 17$ in.

4)



5:2 Slope, y-intercept, and Equations

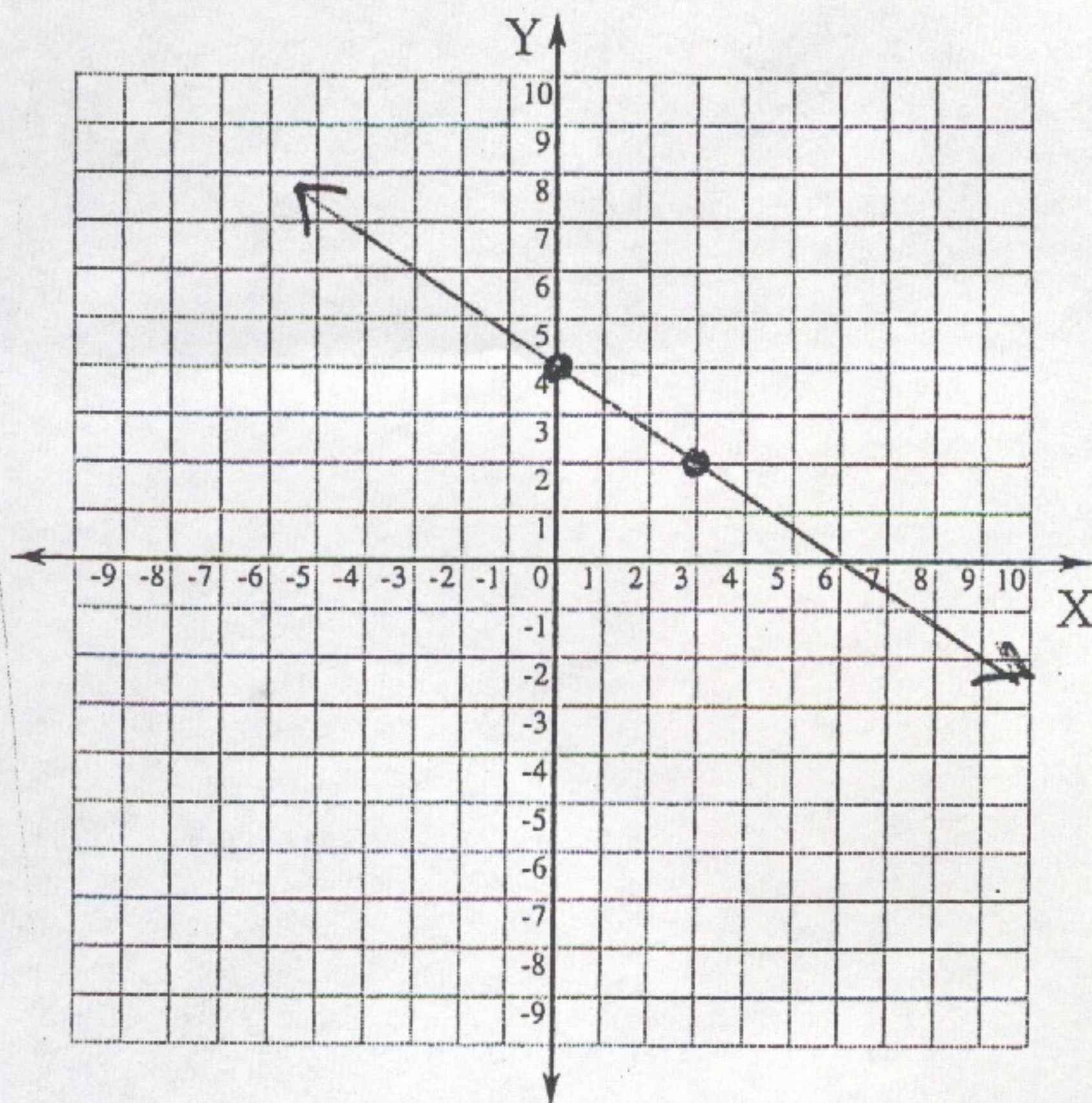
For each line, find the following:

- the slope
- the y-intercept (b)
- the equation in slope-intercept form

5) $m =$

$b =$

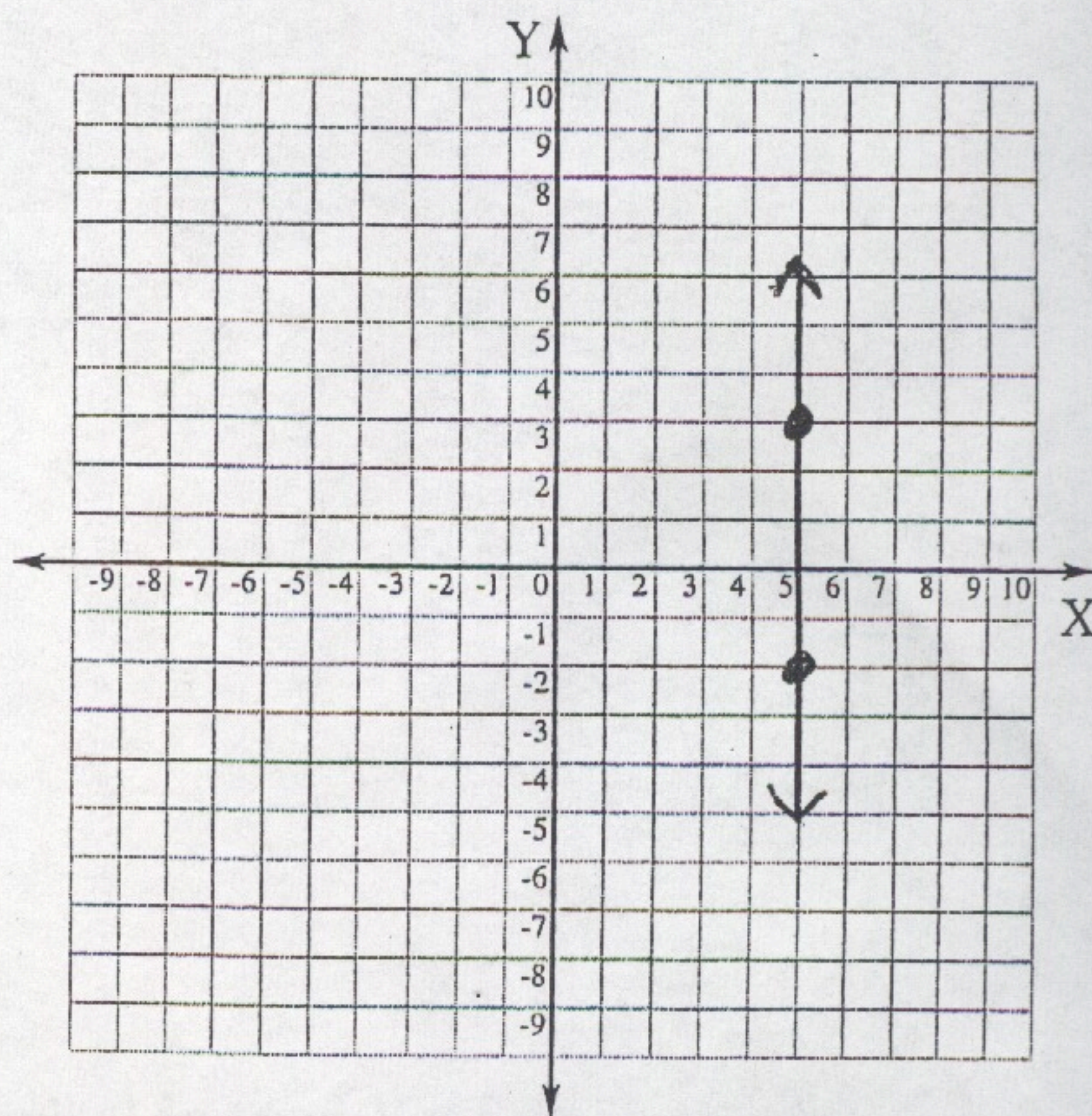
equation:



6) $m =$

$b =$

equation:

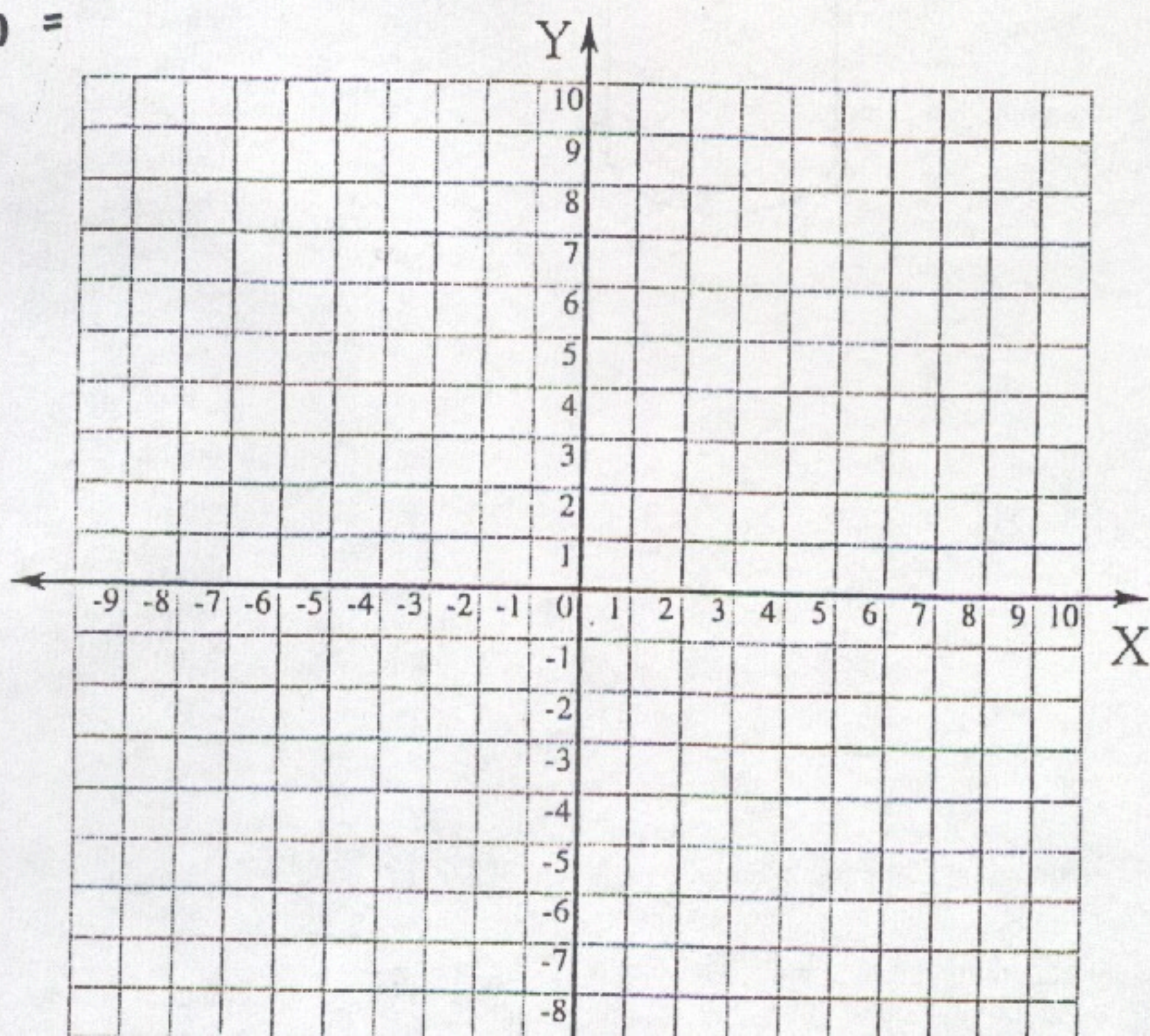


For each equation given, identify the y-intercept point (b), the slope (m), and graph the equation.

7) $y = -5x + 2$

$m =$

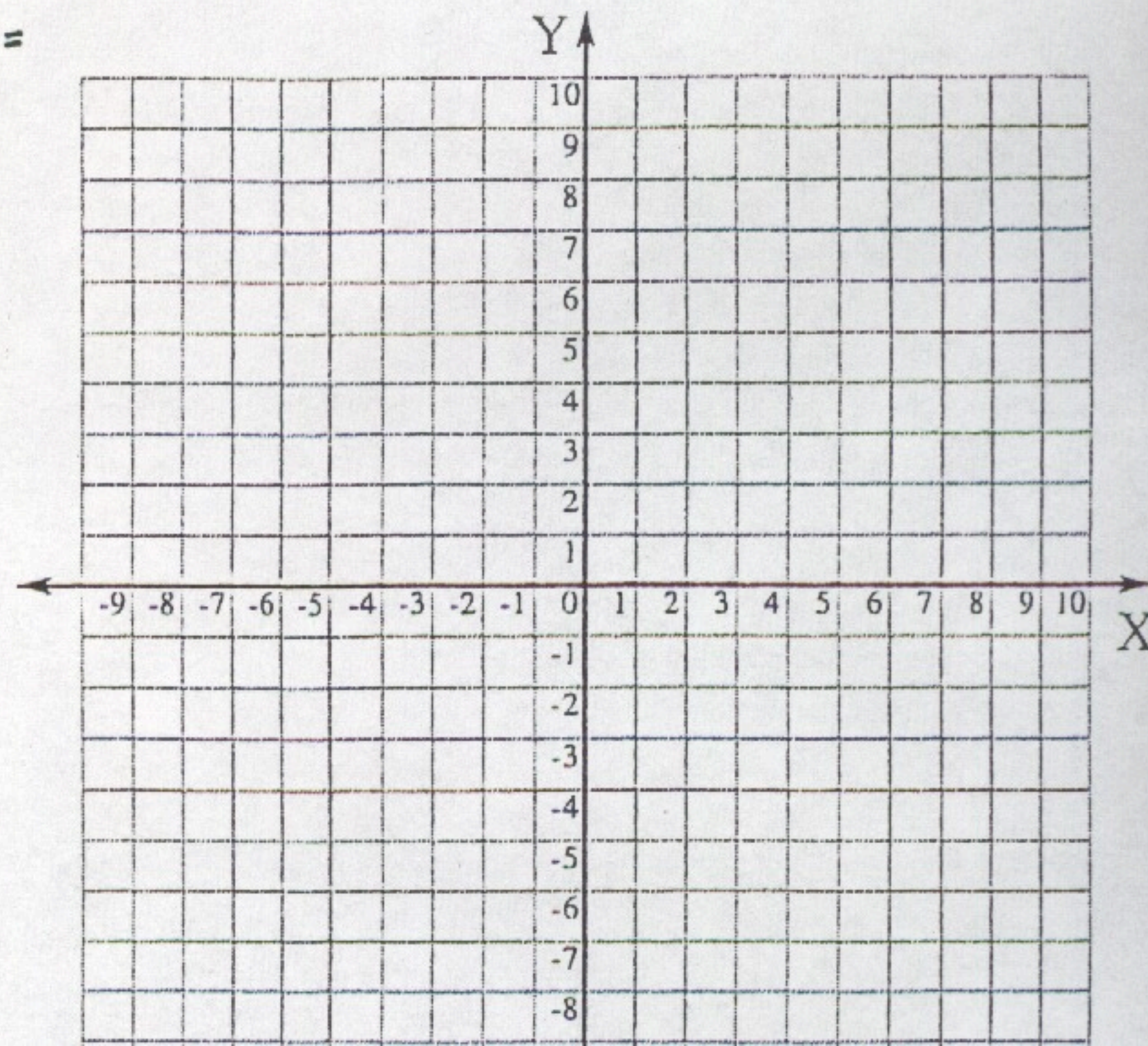
$b =$



8) $y = \frac{3}{4}x - 7$

$m =$

$b =$



5:3:1 Multiply and Divide Powers

Write each product or quotient as a single power.

9) $k^7 \cdot k^{17}$

10) $13 \cdot 13^{64}$

11) $\frac{h^9}{h^4}$

12) $\frac{5^{94}}{5^{36}}$

Write each number in decimal notation.

13) $6.041 \cdot 10^{-4}$

14) $8 \cdot 10^{-2}$

15) 9.25×10^4

16) 7.134×10^6

17) 4.6×10^{-5}

18) 3.2×10^3

Write each number in scientific notation.

18) 0.0004023

19) 0.000000589

20) 72,300,000

21) 83,500

22) 0.00000000234

23) 40,000,000

5:4:1 Complementary and Supplementary Angles
Find the complement of each angle. (1 point each).

24) 23°

25) 89°

26) 71°

Find the supplement of each angle. (1 point each).

27) 27°

28) 124°

29) 157°

5:5 The Counting Principle and Combinations/Permutations

Angela's wardrobe consists of 5 pairs of pants, 8 shirts, and 4 pairs of shoes.

30) How many different outfit combinations are possible?

31) How many different ways can the shirts be listed?

32) Angela wanted to take 2 pairs of pants with her for a weekend trip. How many combinations of 2 pairs of pants could she choose?

Eugene's family built a new house. His father installed a garage door keypad that had a 4 digit code, using numbers from 0 - 9.

33) How many different codes are possible?

34) What is the probability that the last two digits are odd numbers?

35) What is the probability that all four digits are less than 7?